

# NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

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The drawing(s) filed (insert date) 6/18/99 are:

A. ☒ approved by the Draftsperson under 37 CFR 1.84 or 1.152.

B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(b): Acceptable categories of drawings:
  - ☒ Pencil and non-black ink not permitted. Fig(s) \_\_\_\_\_
  - ☒ Color drawings are not acceptable until petition is granted. Fig(s) \_\_\_\_\_
2. PHOTOGRAPHS. 37 CFR 1.84(b)
  - ☒ 1 full-tone set is required. Fig(s) \_\_\_\_\_
  - ☒ Photographs not properly mounted (must use dry-mount board or photographic double-weight paper). Fig(s) \_\_\_\_\_
  - ☒ Poor quality (half-tone). Fig(s) \_\_\_\_\_
3. TYPE OF PAPER. 37 CFR 1.84(e)
  - ☒ Paper of flexible, strong, white, and durable material.
  - ☒ Erasures, alterations, overwriting, interlineations, folds, copy-matching marks not accepted. Fig(s) \_\_\_\_\_
  - ☒ Mylar, vellum paper is not acceptable (too thin). Fig(s) \_\_\_\_\_
- SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
  - ☒ 21.0 cm by 29.7 cm (DIN size A4)
  - ☒ 21.6 cm by 27.9 cm (8 1/2 x 11 inches)
  - ☒ All drawing sheets not the same size.
- SHEET(S)
  - ☒ Sheet(s) \_\_\_\_\_
  - ☒ Drawings sheets not an acceptable size. Fig(s) \_\_\_\_\_
- MARGINS. 37 CFR 1.84(g): Acceptable margins:
  - ☒ Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
  - ☒ SIZE: A4 Size
  - ☒ Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
  - ☒ SIZE: 8 1/2 x 11
  - ☒ Margins not acceptable. Fig(s) \_\_\_\_\_
- Top (T) ☒ Left (L) ☒ Right (R) ☒ Bottom (B)
6. VIEWS. 37 CFR 1.84(h)
  - ☒ REMINDER: Specification may require revision to correspond to drawing changes.
  - ☒ Partial views. 37 CFR 1.84(h)(2)
    - ☒ Brackets needed to show figure as one entity. Fig(s) \_\_\_\_\_
    - ☒ Views not labeled separately or properly. Fig(s) \_\_\_\_\_
    - ☒ Enlarged view not labeled separately or properly. Fig(s) \_\_\_\_\_
7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)
  - ☒ Hatching not indicated for sectional portions of an object. Fig(s) \_\_\_\_\_
  - ☒ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) \_\_\_\_\_
8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
  - ☒ Views do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) \_\_\_\_\_
9. SCALE. 37 CFR 1.84(k)
  - ☒ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) \_\_\_\_\_
10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
  - ☒ Lines, numbers & letters not uniformly drawn and well defined, clear, durable, and black. Fig(s) \_\_\_\_\_
11. SHADING. 37 CFR 1.84(m)
  - ☒ Solid black areas not permitted. Fig(s) \_\_\_\_\_
  - ☒ Solid black shading, pale, rough and blurred. Fig(s) \_\_\_\_\_
12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(n)
  - ☒ Numbers and reference characters not plain and legible. Fig(s) \_\_\_\_\_
  - ☒ Figure legends are poor. Fig(s) \_\_\_\_\_
  - ☒ Numbers and reference characters not oriented in the same direction as the view. Fig(s) \_\_\_\_\_
  - ☒ English alphabet not used. 37 CFR 1.84(p)(2)
  - ☒ Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)
13. LEAD LINES. 37 CFR 1.84(q)
  - ☒ Lead lines cross each other. Fig(s) \_\_\_\_\_
  - ☒ Lead lines missing. Fig(s) \_\_\_\_\_
14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i)
  - ☒ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) \_\_\_\_\_
15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
  - ☒ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) \_\_\_\_\_
16. CORRECTIONS. 37 CFR 1.84(w)
  - ☒ Corrections not made from prior PTO-948 dated \_\_\_\_\_
17. DESIGN DRAWINGS. 37 CFR 1.152
  - ☒ Surface shading shown not appropriate. Fig(s) \_\_\_\_\_
  - ☒ Solid black shading not used for color contrast. Fig(s) \_\_\_\_\_

## COMMENTS

REVIEWER Lang

DATE 7/27/99

TELEPHONE NO. 703 305 1038

ATTACHMENT TO PAPER NO. \_\_\_\_\_

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NOTICE OF DRAFTSPERSON'S  
INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities--37 CFR 1.85

The new drawings with the changes incorporated therein. The application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application, should be placed on the back of each sheet of drawings in accordance with 37 CFR 1.84(c). Applicant may delay filing of the new drawings until receipt of the Notice of Allowability (PTOL-37). Extensions of time may be obtained under the provisions of 37 CFR 1.136. The drawing should be filed as a separate paper with a transmittal letter addressed to the Drawing Processing Branch.

2. Timing for Corrections

Applicant is required to submit acceptable corrected drawings within the three-month shortened statutory period set in the Notice of Allowability (PTOL-37). If a correction is determined to be unacceptable by the Office, applicant must arrange to have acceptable corrections resubmitted within the original three-month period to avoid the necessity of obtaining an extension of time and paying the extension fee. Therefore, applicant should file corrected drawings as soon as possible.

Failure to take corrective action within six (6) or extended period will result in ABANDONMENT of the Application.

3. Corrections other than Informalities Noted by the Drawing Review Branch on the Form PTO-948

All changes to the drawings, other than informalities noted by the Drawing Review Branch, MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

1. LEAD LINES: 37 CFR 1.84(g)  
2. NUMBERING OF SHEETS OF DRAWINGS: 37 CFR 1.84(h)  
3. NUMBERING OF VIEWS: 37 CFR 1.84(i)  
4. CORRECTIONS: 37 CFR 1.84(j)  
5. DESIGN DRAWINGS: 37 CFR 1.84(k)  
6. SECTIONAL VIEWS: 37 CFR 1.84(l)  
7. REMINDER: Specifying may require revision to drawing  
8. VIEWS: 37 CFR 1.84(m)  
9. BACKSHEET: 37 CFR 1.84(n)  
10. FIGURES: 37 CFR 1.84(o)  
11. FIGURES: 37 CFR 1.84(p)  
12. FIGURES: 37 CFR 1.84(q)  
13. FIGURES: 37 CFR 1.84(r)  
14. FIGURES: 37 CFR 1.84(s)  
15. FIGURES: 37 CFR 1.84(t)  
16. FIGURES: 37 CFR 1.84(u)  
17. FIGURES: 37 CFR 1.84(v)  
18. FIGURES: 37 CFR 1.84(w)  
19. FIGURES: 37 CFR 1.84(x)  
20. FIGURES: 37 CFR 1.84(y)  
21. FIGURES: 37 CFR 1.84(z)  
22. FIGURES: 37 CFR 1.84(aa)  
23. FIGURES: 37 CFR 1.84(ab)  
24. FIGURES: 37 CFR 1.84(ac)  
25. FIGURES: 37 CFR 1.84(ad)  
26. FIGURES: 37 CFR 1.84(ae)  
27. FIGURES: 37 CFR 1.84(af)  
28. FIGURES: 37 CFR 1.84(ag)  
29. FIGURES: 37 CFR 1.84(ah)  
30. FIGURES: 37 CFR 1.84(ai)  
31. FIGURES: 37 CFR 1.84(aj)  
32. FIGURES: 37 CFR 1.84(ak)  
33. FIGURES: 37 CFR 1.84(al)  
34. FIGURES: 37 CFR 1.84(am)  
35. FIGURES: 37 CFR 1.84(an)  
36. FIGURES: 37 CFR 1.84(ao)  
37. FIGURES: 37 CFR 1.84(ap)  
38. FIGURES: 37 CFR 1.84(aq)  
39. FIGURES: 37 CFR 1.84(ar)  
40. FIGURES: 37 CFR 1.84(as)  
41. FIGURES: 37 CFR 1.84(at)  
42. FIGURES: 37 CFR 1.84(au)  
43. FIGURES: 37 CFR 1.84(av)  
44. FIGURES: 37 CFR 1.84(aw)  
45. FIGURES: 37 CFR 1.84(ax)  
46. FIGURES: 37 CFR 1.84(ay)  
47. FIGURES: 37 CFR 1.84(az)  
48. FIGURES: 37 CFR 1.84(ba)  
49. FIGURES: 37 CFR 1.84(bb)  
50. FIGURES: 37 CFR 1.84(bc)  
51. FIGURES: 37 CFR 1.84(bd)  
52. FIGURES: 37 CFR 1.84(be)  
53. FIGURES: 37 CFR 1.84(bf)  
54. FIGURES: 37 CFR 1.84(bg)  
55. FIGURES: 37 CFR 1.84(bh)  
56. FIGURES: 37 CFR 1.84(bi)  
57. FIGURES: 37 CFR 1.84(bj)  
58. FIGURES: 37 CFR 1.84(bk)  
59. FIGURES: 37 CFR 1.84(bl)  
60. FIGURES: 37 CFR 1.84(bm)  
61. FIGURES: 37 CFR 1.84(bn)  
62. FIGURES: 37 CFR 1.84(bo)  
63. FIGURES: 37 CFR 1.84(bp)  
64. FIGURES: 37 CFR 1.84(bq)  
65. FIGURES: 37 CFR 1.84(br)  
66. FIGURES: 37 CFR 1.84(bs)  
67. FIGURES: 37 CFR 1.84(bt)  
68. FIGURES: 37 CFR 1.84(bu)  
69. FIGURES: 37 CFR 1.84(bv)  
70. FIGURES: 37 CFR 1.84(bw)  
71. FIGURES: 37 CFR 1.84(bx)  
72. FIGURES: 37 CFR 1.84(by)  
73. FIGURES: 37 CFR 1.84(bz)  
74. FIGURES: 37 CFR 1.84(ca)  
75. FIGURES: 37 CFR 1.84(cb)  
76. FIGURES: 37 CFR 1.84(cc)  
77. FIGURES: 37 CFR 1.84(cd)  
78. FIGURES: 37 CFR 1.84(ce)  
79. FIGURES: 37 CFR 1.84(cf)  
80. FIGURES: 37 CFR 1.84(cf)  
81. FIGURES: 37 CFR 1.84(cf)  
82. FIGURES: 37 CFR 1.84(cf)  
83. FIGURES: 37 CFR 1.84(cf)  
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91. FIGURES: 37 CFR 1.84(cf)  
92. FIGURES: 37 CFR 1.84(cf)  
93. FIGURES: 37 CFR 1.84(cf)  
94. FIGURES: 37 CFR 1.84(cf)  
95. FIGURES: 37 CFR 1.84(cf)  
96. FIGURES: 37 CFR 1.84(cf)  
97. FIGURES: 37 CFR 1.84(cf)  
98. FIGURES: 37 CFR 1.84(cf)  
99. FIGURES: 37 CFR 1.84(cf)  
100. FIGURES: 37 CFR 1.84(cf)

COMMENTS

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